



DOCKET NO.: B1102.70027US00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Miller, et al.  
Serial No.: 10/664,046  
Confirmation No.: 2591  
Filed: September 16, 2003  
For: DETERMINATION AND/OR CONTROL OF REACTOR  
ENVIRONMENTAL CONDITIONS

Examiner: Nathan A. Bowers  
Art Unit: 1744

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 24 day of July, 2007.

  
Signature

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**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office action, but before the mailing date of any final action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

07/31/2007 SSITHIB1 00000079 10664046

01 FC:1806

180.00 0P

PART II: Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicants hereby make the following additional information of record in the above-identified application.

The Applicants would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

| <u>Serial No.</u> | <u>Filing Date</u> | <u>Inventor(s)</u> |                 |
|-------------------|--------------------|--------------------|-----------------|
| 11/500,573        | August 7, 2006     | Zarur, et al.      | B1102.70024US01 |
| 11/584,343        | October 20, 2006   | Miller et al.      | B1102.70011US01 |

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

Serial No.: 10/664,046  
Conf. No.: 2591

- 3 -

Art Unit: 1744

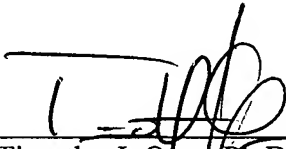
By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

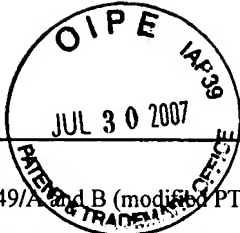
Respectfully submitted,

By:



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Docket No.: B1102.70027US00  
Date: July 26, 2007  
xNDDx



|  |   |    |   |                                 |  |                                   |  |
|--|---|----|---|---------------------------------|--|-----------------------------------|--|
| FORM PTO-1449/A and B (modified PTO/SB/08)<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   |    |   | APPLICATION NO.: 10/664,046     |  | ATTY. DOCKET NO.: B1102.70027US00 |  |
|  |   |    |   | FILING DATE: September 16, 2003 |  | CONFIRMATION NO.: 2591            |  |
|  |   |    |   | APPLICANT: Miller, et al.       |  |                                   |  |
|  |   |    |   | GROUP ART UNIT: 1744            |  | EXAMINER: Nathan A. Bowers        |  |
| Sheet  | 1 | of | 2 |                                 |  |                                   |  |

#### U.S. PATENT DOCUMENTS

| Examiner's<br>Initials # | Cite<br>No. | U.S. Patent Document |              | Name of Patentee or Applicant of Cited<br>Document | Date of Publication or Issue<br>of Cited Document<br>MM-DD-YYYY |
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|   |   |    |   |                                 |                                   |
|---|---|----|---|---------------------------------|-----------------------------------|
| <b>FORM PTO-1449/A and B (modified PTO/SB/08)</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> |   |    |   | APPLICATION NO.: 10/664,046     | ATTY. DOCKET NO.: B1102.70027US00 |
|   |   |    |   | FILING DATE: September 16, 2003 | CONFIRMATION NO.: 2591            |
|   |   |    |   | APPLICANT: Miller, et al.       |                                   |
|   |   |    |   | GROUP ART UNIT: 1744            | EXAMINER: Nathan A. Bowers        |
| Sheet   | 2 | of | 2 |                                 |                                   |

|  |  |              |    |               |            |
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#### FOREIGN PATENT DOCUMENTS

| Examiner's<br>Initials # | Cite<br>No. | Foreign Patent Document |           |              | Name of Patentee or Applicant of Cited<br>Document                      | Date of<br>Publication of<br>Cited Document<br>MM-DD-YYYY | Translation<br>(Y/N) |
|--------------------------|-------------|-------------------------|-----------|--------------|---|---|----------------------|
|                          |             | Office/<br>Country      | Number    | Kind<br>Code |   |   |                      |
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#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

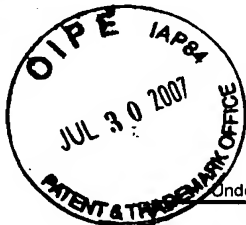
| Examiner's<br>Initials # | Cite<br>No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item<br>(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher,<br>city and/or country where published. | Translation<br>(Y/N) |
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|                          |            | International Search Report dated December 2, 2005, for PCT/US05/019914, filed June 7, 2005   |                      |

|           |                  |
|-----------|------------------|
| EXAMINER: | DATE CONSIDERED: |
|-----------|------------------|

# EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_, filed \_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]



PTO/SB/17 (07-07)  
Approved for use through 06/30/2010. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

|   |  |                          |                        |
|---|--|--------------------------|------------------------|
| <b>Effective on 12/08/2004.</b><br><b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b><br><b>FEE TRANSMITTAL</b><br><b>For FY 2007</b> |  | <b>Complete if Known</b> |                        |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27   |  | Application Number       | 10/664,046-Conf. #2591 |
| TOTAL AMOUNT OF PAYMENT (\$)  |  | Filing Date              | September 16, 2003     |
| 180.00  |  | First Named Inventor     | Scott E. Miller        |
|   |  | Examiner Name            | N. A. Bowers           |
|   |  | Art Unit                 | 1744                   |
|   |  | Attorney Docket No.      | B1102.70027US00        |

**METHOD OF PAYMENT** (check all that apply)

☒ Check    ☐ Credit Card    ☐ Money Order    ☐ None    ☐ Other (please identify): \_\_\_\_\_

☐ Deposit Account    Deposit Account Number: 23/2825    Deposit Account Name: Wolf, Greenfield & Sacks, P.C.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below    ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17    ☒ Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description                                    | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues)            | 50       | 25                    |
| Each independent claim over 3 (including Reissues) | 200      | 100                   |
| Multiple dependent claims                          | 360      | 180                   |

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**

\_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**

\_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets**    **Extra Sheets**    **Number of each additional 50 or fraction thereof**    **Fee (\$)**    **Fee Paid (\$)**

\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement    **Fees Paid (\$)** 180.00

|                     |                        |                                   |                |
|---------------------|------------------------|-----------------------------------|----------------|
| <b>SUBMITTED BY</b> |                        |                                   |                |
| Signature           |                        | Registration No. (Attorney/Agent) | 36,628         |
| Name (Print/Type)   | Timothy J. Oyer, Ph.D. | Telephone                         | (617) 646-8000 |
|                     |                        | Date                              | July 26, 2007  |

**Certificate of Mailing Under 37 CFR 1.8(a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: 7/26/07    Signature: (E. J. Poole)